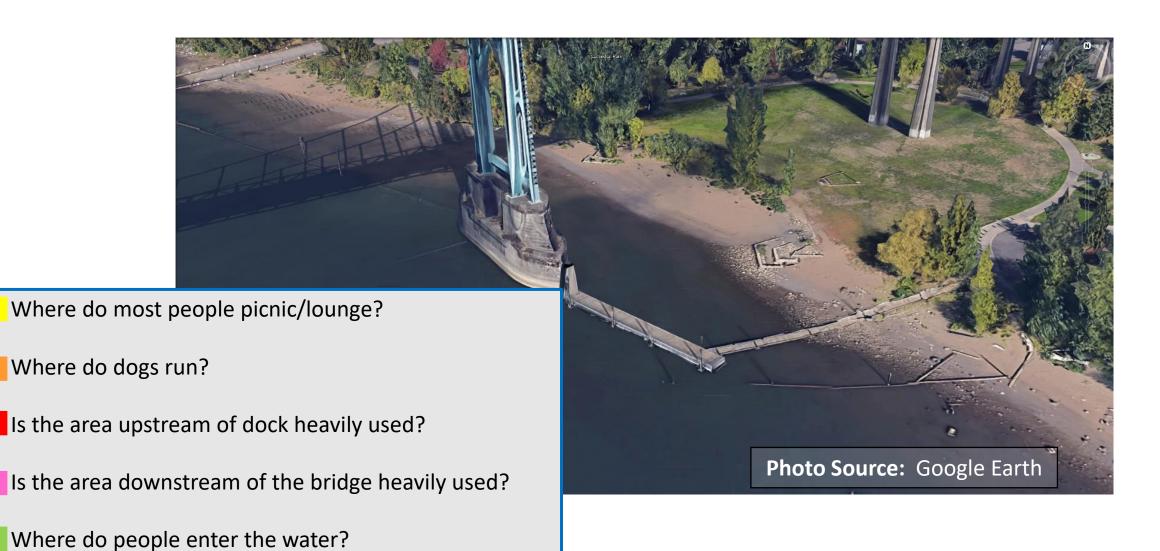
### How does community use the Cathedral Park Beach?

How far out do people wade in the water?







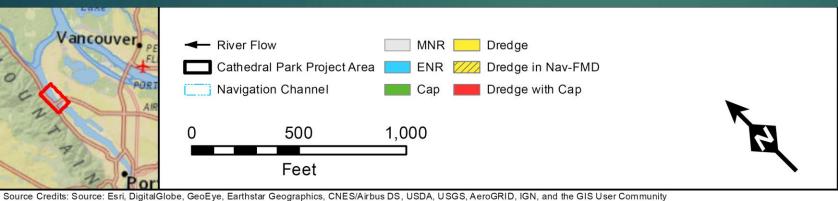
March 23, 2021

# Welcome! Cathedral Park Project Area Working Group

March Meeting!

## Cathedral Park Project Area





### Introductions!

- ▶ Laura will introduce existing members!
- ▶ For new members, please consider sharing:
  - ▶ Your name
  - ► Your **organization** or **affiliation** ('interested community member' is just fine!)
  - Your preferred pronouns (such as: she/her/hers, he/him/his, they/their/theirs)
  - ► Your **main reason** for joining this Cathedral Park Project Area Working Group ©

## Agenda for Today

- ▶ **High level recap** of February 24<sup>th</sup> meeting
- Discuss additional information on EPA's Incremental Sampling approach for the Cathedral Park Project Area
- Discuss educational activity for EPA's Cathedral Park Project Area Sampling work
- ▶ Summarize & Discuss Next Steps for this Working Group
  - ► Schedule April meeting (if needed)



## Cathedral Park Project Area Working Group

Feb. 24 <sup>th</sup> High Level N	leeting Overvie	PW
Feb. 24 <sup>th</sup> Working Group Topic		

#### Overview of Purpose and Future for Cathedral Park Project Area Working Group

- **Purpose:** Discuss community education and engagement opportunities for EPA's initial sampling work at the Cathedral Park Project Area (planned to start in Spring 2021)
- **Future:** Once EPA enters into an agreement with a working party or parties for the Cathedral Park Project Area, the future of this group is uncertain.

Summary

- Contracting discussion by EPA's Contractor CDM Smith
- Discussion of CDM Smith's role in the Portland Harbor Superfund Site CDM Smith's equity indicators in the procurement process
- CDM Smith's subcontracting approach

#### Discussion of EPA's Initial **Sampling Work** at the Cathedral Park Project Area and specific

goals for this working group.

#### EPA heard that working group members wanted:

- 1. More information about EPA's incremental sampling approach
- To feel confident about the sampling data and findings
- Clear communication of data results
- 4. Ability for this working group to inform & develop educational activities related to EPA's sampling at the Cathedral Park Project Area
- 5. Review of what EPA knows to-date about health risks at the Cathedral Park Project Area

## **EPA's Incremental Sampling Approach**

By the end of this section, we hope that working group members will:

- ✓ Understand the concept of incremental sampling
- ✓ Understand why incremental sampling is the best approach for the Cathedral Park beach
- ✓ Help us (EPA) better understand how people use the Cathedral Park beach geographically
- ✓ Help us (EPA) consider how to define the decision units at the Cathedral Park beach

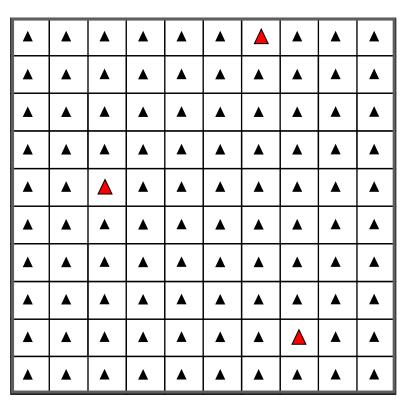
## Why use Incremental Sampling Methodology (ISM) on the Cathedral Park Beach?

• Incremental samples are structured samples that provide an unbiased, reproducible estimate of the mean of a given volume of soil (e.g., decision unit). **Provides** certainty of the "average" concentration.

• Purpose: Gain high level of confidence that we understand the current level of contaminants that people who use the beach are exposed to over a long time period.



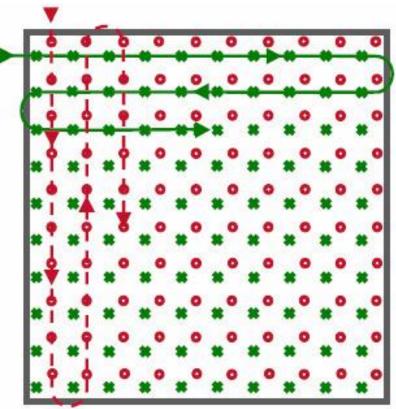
## Why use Incremental Sampling Methodology (ISM) on the Cathedral Park Beach?



#### **Discrete Samples:**

The samples are collected from a single location.

The difference between traditional samples and incremental samples.



#### **Incremental Samples:**

An incremental sample is assembled from a large number (i.e., 30-100) of samples of equivalent size/mass (increments) collected across the decision unit.

## Drying an Incremental Sample

- Material is spread out on trays to dry.
- Allows material to be thoroughly separated and mixed
- After drying, the clumps are manually broken apart.



**Photo Source:** Strategic Environmental Research and Development Program

## R10 Incremental Sampling Methodology Lab Equipment: Ro-Tap Sieve Shaker

This allows us to separate out specific grain sizes and can be used to remove gravel or target the ingestible fraction of soil.





## 2-Dimensional Japanese slab cake sub-sampling setup (after pulverizing/drying) – R10 lab



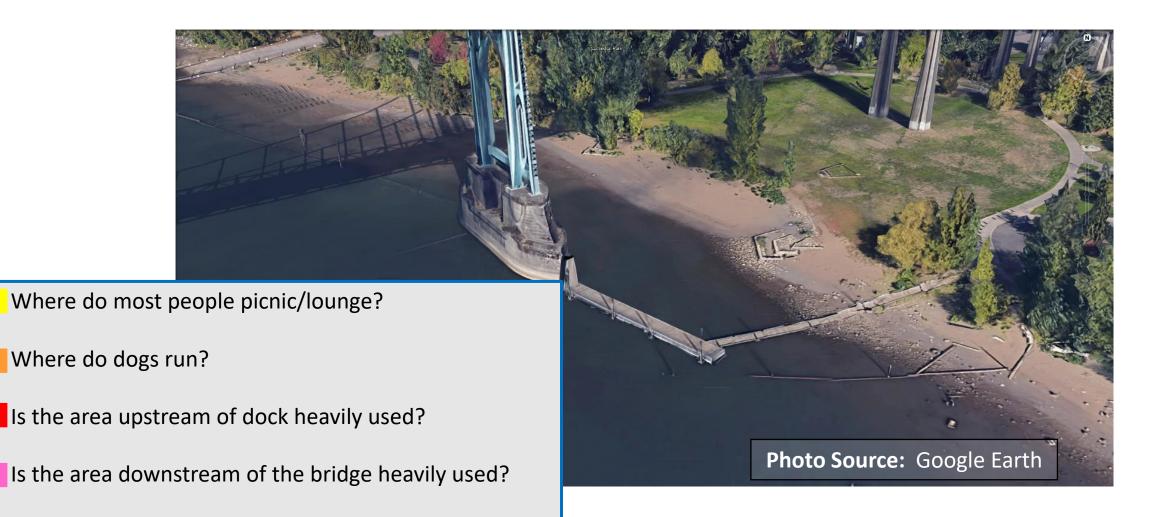
## Example of a sampled 2-D Japanese slab cake – R10 lab



### How does community use the Cathedral Park <u>Beach</u>?

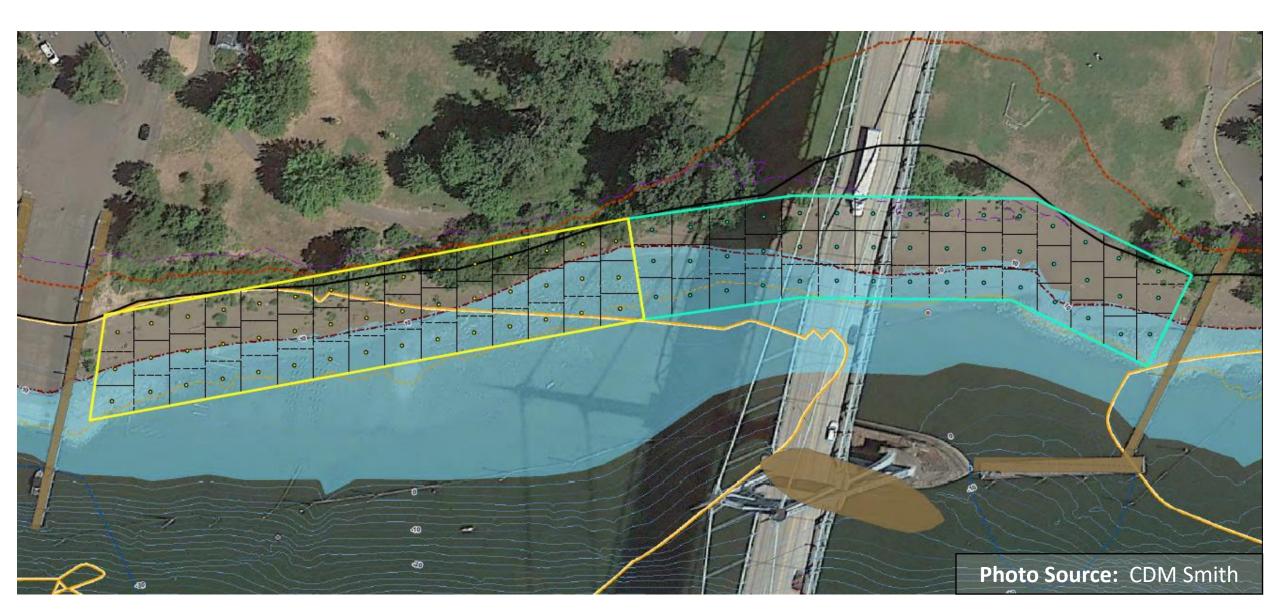
Where do people enter the water?

How far out do people wade in the water?

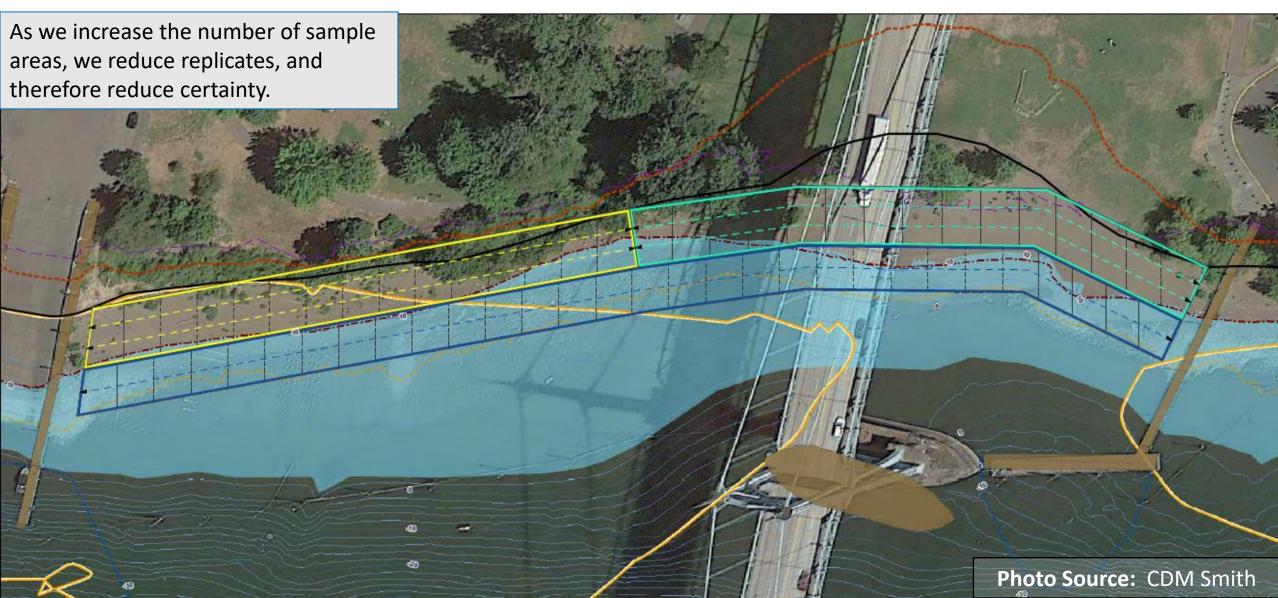




## Option 1: 2 sample areas, 3 replicates in each



Option 2: 3 sample areas, 3 replicates in cyan, 2 replicates in dark blue, single incremental sample in yellow.



## **Educational Activity Discussion!**

### Cathedral Park Project Area

- 1. Audience for educational activity. Who does the working group want to focus/tailor this educational activity for?
- **2. Goal of the educational activity.** What goal or goals does this working group want to have for the audience of this educational activity? Some example goals:
- Educate people about EPA's sampling work.
- Educate people about the Portland Harbor Superfund Site.
- 3. Timing of educational activity



Now, let's brainstorm some educational activity ideas!

### Idea: On-Site Educational Activity

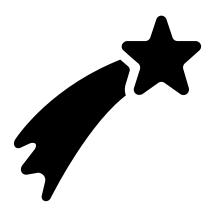
R10 Incremental Sampling Methodology: Field Subsampling











# Summarize + Discuss Next Steps

- ✓ Action Items?
- ✓ Proposed Topics for Next Meeting?
  - ☐ Update on draft EPA Sampling Plan (~mid April)?
  - Continue discussion and development of educational activity?
- ✓ File Viewing & Sharing Update (Lucila)
- ✓ Schedule Next Meeting?

Thank You!